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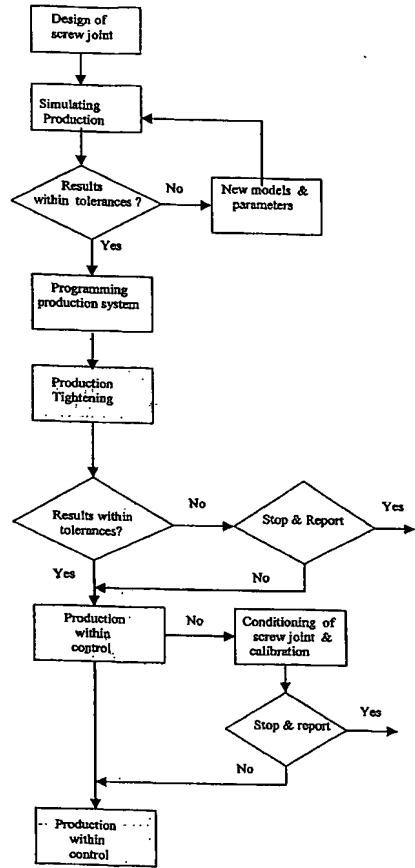
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(54) Title: METHOD FOR QUALITY ASSURANCE OF SCREW JOINT TIGHTENING



(57) Abstract: A method for quality assurance of screw joint tightening results when tightening a screw joint to a needed pretension condition ( $F_N$ ) by means of a torque delivering power tool, wherein one or more simulation procedures of a screw joint tightening process via a specific algorithm aiming at the needed pretension condition ( $F_N$ ) by using programmed data relating to the screw joint geometry, expected frictional conditions, power tool characteristics, a tightening strategy and suitable tightening parameter values, thereby arriving at a simulated pretension condition ( $F_S$ ) which is compared to the resultant pretension condition ( $F_P$ ) of a practically performed tightening process performed via the same specific algorithm, and evaluating the outcome of the comparison for quality acceptance or refusal.

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